

CLAIMS

1. An image processing apparatus comprising:

detecting means for detecting coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen;

reading means for reading a pixel value of a pixel of the predetermined said small image, said pixel being located at a position corresponding to the coordinates on said small screen detected by said detecting means; and

outputting means for outputting said pixel value read by said reading means as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen.

2. The information processing apparatus as claimed in claim 1, further comprising storing means for storing a table in which the coordinates on said large screen, the coordinates on said small screen including the coordinates on said large screen, said coordinates on said small screen corresponding to the coordinates on

said large screen, and information for identifying said small image to be displayed on said small screen are associated with each other,

wherein said detecting means detects the coordinates on said small screen including said predetermined coordinates on said large screen, said coordinates on said small screen corresponding to said predetermined coordinates, from said table; and

said reading means reads the pixel value of the pixel of said small image identified by the information for identifying said small image, said information being associated with said predetermined coordinates in said table, said pixel being located at the position corresponding to the coordinates on said small screen detected by said detecting means.

3. The image processing apparatus as claimed in claim 1, wherein said small image is an image corresponding to a picked-up image obtained as a result of image pickup by an image pickup device.

4. An image processing method comprising:

a detecting step for detecting coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small

images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen;

a reading step for reading a pixel value of a pixel of the predetermined said small image, said pixel being located at a position corresponding to the coordinates on said small screen detected by a process of said detecting step; and

an outputting step for outputting said pixel value read by a process of said reading step as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen.

5. A recording medium on which a computer readable program is recorded, said program comprising:

a detecting control step for controlling detecting coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen;

a reading control step for controlling reading a

pixel value of a pixel of the predetermined said small image, said pixel being located at a position corresponding to the coordinates on said small screen detected by a process of said detecting control step; and

an outputting control step for controlling outputting said pixel value read by a process of said reading control step as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen.

6. A program that makes a computer perform a process comprising:

a detecting control step for controlling detecting coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen;

a reading control step for controlling reading a pixel value of a pixel of the predetermined said small image, said pixel being located at a position corresponding to the coordinates on said small screen

detected by a process of said detecting control step; and
an outputting control step for controlling
outputting said pixel value read by a process of said
reading control step as a pixel value of a pixel of said
large image, said pixel being located at a position
corresponding to said predetermined coordinates on said
large screen.

7. An information processing apparatus for
generating a first table supplied to an image processing
apparatus, said image processing apparatus detecting,
from a first table, coordinates on a small screen for
displaying a small image including predetermined
coordinates on a large screen for displaying a large
image comprising a plurality of small images disposed at
predetermined positions, said coordinates on said small
screen corresponding to said predetermined coordinates on
said large screen, reading a pixel value of a pixel of
said small image identified by information for
identifying said small image, said information being
associated with said predetermined coordinates in said
first table, said pixel being located at a position
corresponding to the detected coordinates on said small
screen, and outputting the read said pixel value as a
pixel value of a pixel of said large image, said pixel

being located at a position corresponding to said predetermined coordinates on said large screen, said information processing apparatus comprising:

first detecting means for detecting the coordinates on said small screen including the coordinates on said large screen, said coordinates on the small screen corresponding to the coordinates on said large screen;

second detecting means for detecting the information for identifying said small image, said information being associated with the coordinates on said large screen; and

generating means for generating said first table by storing the coordinates on said large screen, the coordinates on said small screen detected by said first detecting means, and the information for identifying said small image detected by said second detecting means in association with each other.

8. The information processing apparatus as claimed in claim 7, wherein:

said small image is an image corresponding to a picked-up image obtained as a result of image pickup by an image pickup device; and

the coordinates on said large screen are associated with information for identifying said image pickup device

having a corresponding image pickup area as the information for identifying said small image in each area corresponding to the image pickup area of said image pickup device.

9. The information processing apparatus as claimed in claim 8, further comprising storing means for storing a second table in which coordinates on said small screen of said picked-up image for said small screen which image is cut out from said picked-up image after being subjected to correction on a basis of a condition of an optical system of said image pickup device and coordinates on said large screen when said picked-up image for said small screen is positioned on the predetermined said small screen, said coordinates on said large screen corresponding to the coordinates on said small screen, are associated with each other,

wherein said first detecting means detects coordinates on said small screen corresponding to coordinates on said large screen from said second table, and detects coordinates on said small screen of said picked-up image before the correction from the detected coordinates on said small screen.

10. An information processing method of an information processing apparatus for generating a first

table supplied to an image processing apparatus, said image processing apparatus detecting, from a first table, coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen, reading a pixel value of a pixel of said small image identified by information for identifying said small image, said information being associated with said predetermined coordinates in said first table, said pixel being located at a position corresponding to the detected coordinates on said small screen, and outputting the read said pixel value as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen, said information processing method comprising:

 a first detecting step for detecting the coordinates on said small screen including the coordinates on said large screen, said coordinates on the small screen corresponding to the coordinates on said large screen;

a second detecting step for detecting the information for identifying said small image, said information being associated with the coordinates on said large screen; and

a generating step for generating said first table by storing the coordinates on said large screen, the coordinates on said small screen detected by a process of said first detecting step, and the information for identifying said small image detected by a process of said second detecting step in association with each other.

11. A recording medium on which a computer readable program of an information processing apparatus for generating a first table supplied to an image processing apparatus is recorded, said image processing apparatus detecting, from a first table, coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen, reading a pixel value of a pixel of said small image identified by information for identifying said small image, said information being associated with said predetermined

coordinates in said first table, said pixel being located at a position corresponding to the detected coordinates on said small screen, and outputting the read said pixel value as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen, said program comprising:

- a first detecting control step for controlling detecting the coordinates on said small screen including the coordinates on said large screen, said coordinates on said small screen corresponding to the coordinates on said large screen;

- a second detecting control step for controlling detecting the information for identifying said small image, said information being associated with the coordinates on said large screen; and

- a generating control step for controlling generating said first table by storing the coordinates on said large screen, the coordinates on said small screen detected by a process of said first detecting control step, and the information for identifying said small image detected by a process of said second detecting control step in association with each other.

12. A program of an information processing

apparatus for generating a first table supplied to an image processing apparatus, said image processing apparatus detecting, from a first table, coordinates on a small screen for displaying a small image including predetermined coordinates on a large screen for displaying a large image comprising a plurality of small images disposed at predetermined positions, said coordinates on said small screen corresponding to said predetermined coordinates on said large screen, reading a pixel value of a pixel of said small image identified by information for identifying said small image, said information being associated with said predetermined coordinates in said first table, said pixel being located at a position corresponding to the detected coordinates on said small screen, and outputting the read said pixel value as a pixel value of a pixel of said large image, said pixel being located at a position corresponding to said predetermined coordinates on said large screen, said program characterized by making a computer perform a process comprising:

a first detecting control step for controlling detecting the coordinates on said small screen including the coordinates on said large screen, said coordinates on said small screen corresponding to the coordinates on

said large screen;

a second detecting control step for controlling detecting the information for identifying said small image, said information being associated with the coordinates on said large screen; and

a generating control step for controlling generating said first table by storing the coordinates on said large screen, the coordinates on said small screen detected by a process of said first detecting control step, and the information for identifying said small image detected by a process of said second detecting control step in association with each other.